

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-003106**Date Inspected:** 15-Mar-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Sub-Assemblies (OBG) and Sub-Assemblies**Bid Item:** 77,78,79**Lot No:****Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Sub-Assemblies (OBG)

Bike Path Panel BK4A-064, NOI Number 5966: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Bike Path Panel BK4A-064 was tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT) and ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub). All test results were acceptable and within desired limits with x1 MEK @ 5 and x1 soluble salts recorded reading of (6.0 µs/cm). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Stiffeners X6047A (16 Each), X6047C (16 Each), L-Plate (1 Each), Splices (32 Each), Shim Plates (16 Each) and Maintenance Traveler Rails 20TR2-031 and 20TR2-040, NOI Number 5969: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Stiffeners X6047A (16 Each), X6047C (16 Each), L-Plate (1 Each), Splices (32 Each), Shim Plates (16 Each) and Maintenance Traveler Rails 20TR2-031 and 20TR2-040. Test results recorded x3 surface profile readings of 82 to 85 µm and x1 soluble salts reading of 16.7 (µs/cm). ABF Quality Assurance personnel instructed ZPMC to re-work Maintenance Traveler Rails 20TR2-031

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and 20TR2-040 and re-submit for inspection due to additional required blasting. No other discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Anchor Bearing Blocks (63 Each), NOI Number 5970: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Anchor Bearing Blocks (63 Each) for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to defects (high DFT readings) in the applied Interzinc 22 undercoat.

Maintenance Traveler Rail 20TR2-040, NOI Number 5972: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Maintenance Traveler Rail 20TR2-040. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Drainage Flumes (13 Each), NOI Number 5973: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Drainage Flumes (13 Each) in preparation for blasting operations. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to the presence of oil and grease on substrate.

Drainage Flumes (13 Each), NOI Number 5974: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Drainage Flumes (13 Each) in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Anchor Bearing Blocks (63 Each), NOI Number 5975: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Anchor Bearing Blocks (63 Each) for dry film thickness (DFT) compliance. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Sub-Assemblies (Tower)

Ladders (58 Each), NOI Number T2019: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Ladders (58 Each) for dry film thickness (DFT) compliance. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Office

This Quality Assurance Inspector (QA) reviewed, recorded and entered data from notice of inspection requests for the purpose of tracking and compliance to contract documents.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

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Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

Inspected By:	Cason,Kenneth	Quality Assurance Inspector
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Reviewed By:	Miller,Mark	QA Reviewer
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